

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Mitsuhiro SHIMAZU *et al.*

Serial No.: NEW

Filed: July 26, 2001 (herewith)

For: DISPLAY DEVICE FOR
CONSTRUCTION MACHINE

PRELIMINARY AMENDMENT

Honorable Commissioner
of Patents and Trademarks
Washington, D.C. 20231

July 26, 2001

Dear Sir:

Prior to an examination on the merits, please amend the above-identified application as follows:

IN THE ABSTRACT OF THE DISCLOSURE:

Please replace the Abstract of the Disclosure, which appears on page 26 of applicant's specification disclosure, with the following rewritten Abstract of the Disclosure:

--ABSTRACT OF THE DISCLOSURE

A display device that has a display screen is disclosed that has the ability to prevent reflections of the display screen from appearing on glass, without

lowering the visibility of a display portion of the display screen. The brightness of the display color of either the background portion 31 on a display screen 30 or the background portion 31 of such one of display portions 32 and 33 as occupies the larger area of the lit portion of the display screen 30 is changed according to the control of a control switch 23. If the brightness of the display color of the background portion 31 is lowered (from the "thin light blue" to the "thick light blue", for example) at the nighttime, its reflection on the glass around a cabin 40 can be reduced without lowering the luminance of the display screen 30. Alternatively, the saturation or hue of the display color can be changed to obtain a similar effect.--

IN THE SPECIFICATION:

Please replace the two paragraphs beginning at page 4, line 4, with the following single rewritten paragraph:

--According to a first aspect of the invention, there is provided a display device disposed in a cabin of a construction machine and comprising: a background portion, a display portion on a display screen, and --.

Please replace the two paragraphs beginning at page 7, line 17, with the following single rewritten paragraph:

--According to a fifth aspect of the invention, there is provided a display device disposed in a cabin of a construction machine and comprising: a background portion, a display portion on a display screen, and --.

Please replace the paragraph beginning at page 9, line 10, with the following rewritten paragraph:

--Figs. 1A and 1B show exteriors of a monitor panel of an embodiment, where Fig. 1A is a diagram showing the exterior of a monitor panel 10, at a time other than the nighttime, and Fig. 1B is a diagram showing the exterior of the monitor panel 10 at the nighttime;--

IN THE CLAIMS:

Please amend Claims 1 and 5 to read as follows:

--1. (Amended) A display device disposed in a cabin of a construction machine comprising:

a display screen having a background portion and a display portion, said background portion having display colors and said display portion having display colors arranged in patterns for providing information to an operator of said construction machine, and

change means for improving readability of said display screen by changing a difference in at least one of brightness, saturation and hue between the respective display colors of said background portion and said display portion.--

--5. (Amended) A display device disposed in a cabin of a construction machine and comprising:

a display screen having a background portion and a display portion, said background portion having display colors and said display portion having display colors arranged in patterns for providing information to an operator of said construction machine, and

illuminance detecting means for detecting illuminance inside or outside of said cabin; and

change means for changing a difference in at least one of brightness, saturation and hue between the respective display colors of said background portion and said display portion, when said illuminance detected by said illuminance detecting means is higher or lower than a predetermined threshold value.--

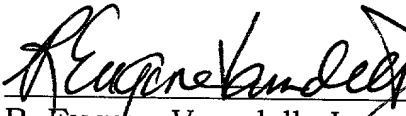
REMARKS

The specification and claims were amended above to correct typographical and idiomatic errors. Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached pages are captioned **“VERSION WITH MARKINGS TO SHOW CHANGES MADE.”**

Early consideration and allowance of Claims 1- 5 are respectfully requested.

In the event any additional fees are due, please charge our Deposit Account No. 22-0256.

Respectfully submitted,
VARNDELL & VARNDELL, PLLC
(formerly Varndell Legal Group)


R. Eugene Varndell, Jr.
Registration No. 29,728

Atty. Case No. VX012324
106-A South Columbus Street
Alexandria, Virginia 22314
(703) 683-9730
V:\VDOCS\W_DOCS\JULY01\PO-152-2328 PA.DOC

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE ABSTRACT OF THE DISCLOSURE:

The Abstract of the Disclosure was amended as follows:

--ABSTRACT OF THE DISCLOSURE

[To prevent] A display device that has a display screen is disclosed that
has the ability to prevent reflections of the display screen from [being reflected]
appearing on glass [shields], without lowering the visibility of a display portion
of the display screen. The brightness of the display color of either the
background portion 31 on a display screen 30 or the background portion 31 of
such one of display portions 32 and 33 as occupies the larger area of the lit
portion of the display screen 30 is changed according to the control of a control
switch 23. If the brightness of the display color of the background portion 31
is lowered (from the "thin light blue" to the "thick light blue", for example) at
the nighttime, [therefore,] its reflection on the [less] glass around a cabin 40
can be reduced without lowering the luminance of the display screen 30.
Alternatively, the saturation or hue of the display color [is likewise] can be
changed to obtain a similar effect.--

IN THE SPECIFICATION:

The two paragraphs beginning at page 4, line 4, were amended as follows:

--According to a first aspect of the invention, there is provided a display device disposed in a cabin of a construction machine and comprising: a background portion, [; and] a display portion on a display screen, and [wherein the improvement comprises:]--.

The two paragraphs beginning at page 7, line 17, were amended as follows:

--According to a fifth aspect of the invention, there is provided a display device disposed in a cabin of a construction machine and comprising: a background portion, [; and] a display portion on a display screen, and [wherein the improvement comprises:]--.

The paragraph beginning at page 9, line 10, was amended as follows:

--[Of] Figs. 1A and 1B [showing] show exteriors of a monitor panel of an embodiment, where Fig. 1A is a diagram showing the exterior of a monitor panel 10, at a time other than the nighttime, and Fig. 1B is a diagram showing the exterior of the monitor panel 10 at the nighttime;--

IN THE CLAIMS:

Claims 1 and 5 were amended as follows:

--1. (Amended) A display device disposed in a cabin of a construction machine comprising: [a background portion and a display portion on a display screen, wherein the improvement comprises:]

a display screen having a background portion and a display portion, said background portion having display colors and said display portion having display colors arranged in patterns for providing information to an operator of said construction machine, and

change means for improving readability of said display screen by changing [the] a difference in at least one of brightness, saturation [or] and hue between the [individual] respective display colors of said background portion and said display portion.--

--5. (Amended) A display device disposed in a cabin of a construction machine and comprising: [a background portion and a display portion on a display screen, wherein the improvement comprises:]

a display screen having a background portion and a display portion, said background portion having display colors and said display portion having display colors arranged in patterns for providing information to an operator of said construction machine, and

illuminance detecting means for detecting [the] illuminance [of the] inside or [the] outside of [the] said cabin; and

change means for changing [the] a difference in at least one of brightness, saturation [or] and hue between the [individual] respective display

colors of said background portion and said display portion, [depending on the case where the] when said illuminance detected by said illuminance detecting means is higher or lower than a predetermined threshold value.--